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RRRRRRRRRRRR     UUU         UUU  NNN         NNN     OOOOOOOOO     FFFFFFFFFFFFFFFF FFFFFFFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN         NNN     OOOOOOOOO     FFFFFFFFFFFFFFFF FFFFFFFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN         NNN     OOOOOOOOO     FFFFFFFFFFFFFFFF FFFFFFFFFFFFFFFF
RRR         RRR  UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUU         UUU  NNNNNN      NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUU         UUU  NNNNNN      NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUU         UUU  NNNNNN      NNN  OOO         OOO  FFF              FFF
RRRRRRRRRRRR     UUU         UUU  NNN   NNN   NNN  OOO         OOO  FFFFFFFFFFFFF    FFFFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN   NNN   NNN  OOO         OOO  FFFFFFFFFFFFF    FFFFFFFFFFFFF
RRRRRRRRRRRR     UUU         UUU  NNN   NNN   NNN  OOO         OOO  FFFFFFFFFFFFF    FFFFFFFFFFFFF
RRR   RRR        UUU         UUU  NNN      NNNNNN  OOO         OOO  FFF              FFF
RRR   RRR        UUU         UUU  NNN      NNNNNN  OOO         OOO  FFF              FFF
RRR   RRR        UUU         UUU  NNN      NNNNNN  OOO         OOO  FFF              FFF
RRR      RRR     UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR      RRR     UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR      RRR     UUU         UUU  NNN         NNN  OOO         OOO  FFF              FFF
RRR         RRR  UUUUUUUUUUUUUUU  NNN         NNN     OOOOOOOOO     FFF              FFF
RRR         RRR  UUUUUUUUUUUUUUU  NNN         NNN     OOOOOOOOO     FFF              FFF
RRR         RRR  UUUUUUUUUUUUUUU  NNN         NNN     OOOOOOOOO     FFF              FFF
```

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_$2

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          FFFFFFFFFF  NN      NN    OOOOOO    NN      NN  LL          YY      YY
          FF          NN      NN  OO      OO  NN      NN  LL          YY      YY
          FF          NN      NN  OO      OO  NN      NN  LL          YY      YY
          FF          NNNN    NN  OO      OO  NNNN    NN  LL            YY  YY
          FF          NNNN    NN  OO      OO  NNNN    NN  LL            YY  YY
          FFFFFFFF    NN  NN  NN  OO      OO  NN  NN  NN  LL              YY
          FFFFFFFF    NN  NN  NN  OO      OO  NN  NN  NN  LL              YY
          FF          NN    NNNN  OO      OO  NN    NNNN  LL              YY
          FF          NN    NNNN  OO      OO  NN    NNNN  LL              YY
          FF          NN      NN  OO      OO  NN      NN  LL              YY          ....
          FF          NN      NN  OO      OO  NN      NN  LL              YY          ....
          FF          NN      NN    OOOOOO    NN      NN  LLLLLLLLLL      YY          ....
          FF          NN      NN    OOOOOO    NN      NN  LLLLLLLLLL      YY          ....


          LL            IIIIII    SSSSSSSS
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          LLLLLLLLLL    IIIIII    SSSSSSSS
          LLLLLLLLLL    IIIIII    SSSSSSSS
```

```
  0001 0 %TITLE 'Process .FN and .END FOOTNOTE directives'
  0002 0 MODULE fnonly ( IDENT = 'V04-000'
P 0003 0                %BLISS32[, ADDRESSING_MODE (EXTERNAL    = LONG_RELATIVE,
  0004 0                                            NONEXTERNAL = LONG_RELATIVE)]
  0005 0                ) =
  0006 1 BEGIN
  0007 1 !
  0008 1 !****************************************************************************
  0009 1 !*                                                                          *
  0010 1 !*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                                 *
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  0020 1 !*                                                                          *
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  0022 1 !*  AND  SHOULD  NOT  BE  CONSTRUED AS  A COMMITMENT BY DIGITAL EQUIPMENT   *
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  0024 1 !*                                                                          *
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  0026 1 !*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.                 *
  0027 1 !*                                                                          *
  0028 1 !*                                                                          *
  0029 1 !****************************************************************************
  0030 1 !
  0031 1
  0032 1 !++
  0033 1 ! FACILITY:      DSR (Digital Standard RUNOFF) / DSRPLUS
  0034 1 !
  0035 1 ! ABSTRACT:      Processes the .FOOTNOTE and .END FOOTNOTE commands.
  0036 1 !
  0037 1 ! ENVIRONMENT:   Transportable
  0038 1 !
  0039 1 ! AUTHOR:        R.W.Friday        CREATION DATE: September, 1978
  0040 1
```

```
;    42         0041   1 %SBTTL 'Revision History'
;    43         0042   1 ! MODIFIED BY:
;    44         0043   1 !
;    45         0044   1 !        029     RER00029        Ron Randall     14-Apr-1983
;    46         0045   1 !                Fixed bug in footnote numbering code.
;    47         0046   1 !
;    48         0047   1 !        028     RER00028        Ron Randall     06-Apr-1983
;    49         0048   1 !                For DSRPLUS:  Added footnote numbering code.
;    50         0049   1 !
;    51         0050   1 !        027     KFA00027        Ken Alden       16-Mar-1983
;    52         0051   1 !                PUSH/POP_sca now visible to DSR.
;    53         0052   1 !
;    54         0053   1 !        026     RER00026        Ron Randall     07-Mar-1983
;    55         0054   1 !                Global edit of all modules. Updated module names, idents,
;    56         0055   1 !                copyright dates. Changed require files to BLISS library.
;    57         0056   1 !--
;    58         0057   1
;     60          0058   1 %SBTTL 'Module Level Declarations'
;     61          0059   1 !
;     62          0060   1 ! INCLUDE FILES:
;     63          0061   1 !
;     64          0062   1 LIBRARY 'NXPORT:XPORT';                         ! XPORT Library
;     65          0063   1 REQUIRE 'REQ:RNODEF';                           ! RUNOFF variant definitions
;     66          0194   1
;     67        U 0195   1 %IF DSRPLUS %THEN
;     68        U 0196   1 LIBRARY 'REQ:DPLLIB';                           ! DSRPLUS BLISS Library
;     69          0197   1 %ELSE
;     70          0198   1 LIBRARY 'REQ:DSRLIB';                           ! DSR BLISS Library
;     71          0199   1 %FI
;     72          0200   1
;     73          0201   1 !
;     74          0202   1 ! EXTERNAL REFERENCES:
;     75          0203   1 !
;     76          0204   1 EXTERNAL LITERAL
;     77          0205   1     RINTES : UNSIGNED (8);
;     78          0206   1
;     79          0207   1 EXTERNAL
;     80          0208   1     FNCT : FNCT_DEFINITION,                     ! General information about footnotes
;     81          0209   1     FNESIZ : FN_EXT_SIZE_DEFINITION,            ! Lines in each pending footnote
;     82          0210   1     FNISIZ : FN_INT_SIZE_DEFINITION,            ! TSF/MRA sets per pending footnote
;     83          0211   1     GCA : GCA_DEFINITION,
;     84          0212   1     IRA : FIXED_STRING,
;     85          0213   1     KHAR,
;     86          0214   1     LSTCHR : REF VECTOR,
;     87          0215   1     LSTLCH : REF VECTOR,
;     88          0216   1     LSTRCH : REF VECTOR,
;     89          0217   1     LSTLDD : REF VECTOR,
;     90          0218   1     LSTCNT : REF COUNTED_LIST,
;     91          0219   1     LSTSKP : REF VECTOR,
;     92          0220   1     MRA : REF FIXED_STRING,
;     93          0221   1     NUMPRM : NUMPRM_DEFINE,
;     94          0222   1     PDT : REF PDT_DEFINITION,
;     95          0223   1     PHAN : PHAN_DEFINITION,
;     96          0224   1     SCA : SCA_DEFINITION,
;     97          0225   1     TSF : TSF_DEFINITION;
;     98          0226   1
;     99          0227   1 EXTERNAL
;    100          0228   1     FOOMRA : FIXED_STRING,                     !Substitute MRA.
;    101          0229   1     FOOPDT : VECTOR [PDT_SIZE],                !Save area for paragraph stuff.
;    102          0230   1     FOOSCA : VECTOR [SCA_SIZE],                !Save area for SCA
;    103          0231   1     F_LIST : COUNTED_LIST [3],                 !Substitute .LIST counters
;    104          0232   1     F_LCHR : VECTOR [3],                       !Substitute .LIST bullet char.
;    105          0233   1     F_LSKP : VECTOR [3],                       !Substitute .LIST EL spacing.
;    106          0234   1     F_LLCHR : VECTOR [3],                      !Substitute left character
;    107          0235   1     F_LRCHR : VECTOR [3],                      !Substitute right character
;    108          0236   1     F_LDD   : VECTOR [3],                      !Susbtitute display descriptor.
;    109          0237   1     FOOTSF : VECTOR [TSF_SIZE];                !Substitute TSF area
;    110          0238   1
;    111          0239   1 EXTERNAL
;    112          0240   1     FOHLCH,
;    113          0241   1     FOHRCH,
;    114          0242   1     FOHDD,
;    115          0243   1     FOHLSC,
;    116          0244   1     FOHLSK,
;   117          0245  1        FOHLST,
;   118          0246  1        FOHPDT,
;   119          0247  1        FOHMRA,
;   120          0248  1        FOHTSF;
;   121          0249  1
;   122          0250  1  EXTERNAL LITERAL
;   123          0251  1        RNFGFC,
;   124          0252  1        RNFTMF,
;   125          0253  1        RNFUME;
;   126          0254  1
;   127          0255  1  EXTERNAL LITERAL
;   128          0256  1        S_FMRA;                         !Allocated size for footnote MRA.
;   129          0257  1
;   130        U 0258  1  %IF DSRPLUS %THEN
;   131        U 0259  1  EXTERNAL ROUTINE
;   132        U 0260  1        GUSKIP,
;   133        U 0261  1        OUTCRG;
;   134          0262  1  %FI
;   135          0263  1
;   136          0264  1  EXTERNAL ROUTINE
;   137          0265  1        ERM,
;   138          0266  1        ERMA,
;   139          0267  1        ERML,
;   140          0268  1        ERMN,
;   141          0269  1        FOOFIL,
;   142          0270  1        OUTNJ,
;   143          0271  1        SETCAS;
;   144          0272  1  !
;   145          0273  1  ! OWN STORAGE:
;   146          0274  1  !
;   147          0275  1  OWN
;   148          0276  1        PP_SCA : $H_R_SCA_BLOCK;    !Used in PUSH_SCA, POP_SCA macros (defined in SCA.REQ).
;   149          0277  1
;  151          0278  1 %SBTTL 'FN -- body of routine'
;  152          0279  1 GLOBAL ROUTINE fn (handler_code) : NOVALUE =
;  153          0280  1
;  154          0281  1 !++
;  155          0282  1 ! FUNCTIONAL DESCRIPTION:
;  156          0283  1 !
;  157          0284  1 !       Processes the .FOOTNOTE and .END FOOTNOTE commands.
;  158          0285  1 !
;  159          0286  1 ! FORMAL PARAMETERS:
;  160          0287  1 !
;  161          0288  1 !       handler_code - Indicates which command is to be processed.
;  162          0289  1 !
;  163          0290  1 ! IMPLICIT INPUTS:
;  164          0291  1 !
;  165          0292  1 !       numprm - Contains a number, as processed by GETNUM.
;  166          0293  1 !
;  167          0294  1 ! IMPLICIT OUTPUTS:     None
;  168          0295  1 !
;  169          0296  1 ! ROUTINE VALUE:
;  170          0297  1 ! COMPLETION CODES:     None
;  171          0298  1 !
;  172          0299  1 ! SIDE EFFECTS:         None
;  173          0300  1 !--
;  174          0301  1
;  175          0302  2     BEGIN
;  176          0303  2     LOCAL                              !To interchange GCA_NORMAL_XTN and
;  177          0304  2         HOLD_FOOT_XTN;                 !GCA_FOOT_XTN between .fn and .efn.
;  178          0305  2
;  179          0306  2     SELECTONE .HANDLER_CODE OF
;  180          0307  2         SET
;  181          0308  2
;  182          0309  2         [H_FOOTNOTE] :
;  183          0310  3             BEGIN
;  184          0311  3
;  185        U 0312  3 %IF DSRPLUS %THEN
;  186        U 0313  3             !
;  187        U 0314  3             ! If numbering footnotes, set up variables.
;  188        U 0315  3             !
;  189        U 0316  3             IF  .FNCT_NUMBERING
;  190        U 0317  3             THEN
;  191        U 0318  3                 BEGIN
;  192        U 0319  3                 !
;  193        U 0320  3                 ! Flag the start of a numbered footnote.
;  194        U 0321  3                 !
;  195        U 0322  3                 FNCT_FIRST_LINE = 1;
;  196        U 0323  3                 !
;  197        U 0324  3                 ! Bump footnote number by one.  Get left and right digits right.
;  198        U 0325  3                 !
;  199        U 0326  3                 FNCT_NUMBER_R = .FNCT_NUMBER_R + 1;
;  200        U 0327  3                 FNCT_NUMBER   = .FNCT_NUMBER   + 1;
;  201        U 0328  3
;  202        U 0329  3                 IF  .FNCT_NUMBER_R EQL 10
;  203        U 0330  3                 THEN
;  204        U 0331  3                     BEGIN
;  205        U 0332  3                     FNCT_NUMBER_R = 0;
;  206        U 0333  3                     FNCT_NUMBER_L = .FNCT_NUMBER_L + 1;
;  207        U 0334  3                     END;
;  208     U 0335   3
;  209     U 0336   3                 END;
;  210       0337   3 %FI
;  211       0338   3
;  212       0339   3             GCA_CONCAT = FALSE;                      !Don't allow .NO SPACE
;  213       0340   3             FNCT_N = .NUM_VALUE;                     !Save specified count.
;  214       0341   3
;  215       0342   3             IF  FOOFIL (FOO_OPOU) NEQ FOO_NORMAL
;  216       0343   3             THEN
;  217       0344   3                 !Couldn't open footnote file.
;  218       0345   3                 RETURN;
;  219       0346   3
;  220       0347   3             !Check for too many footnotes.
;  221       0348   3             IF  .FNCT_COUNT GEQ FNCT_MAX
;  222       0349   3             THEN
;  223       0350   3                 !Tell the user that he's attempting to define too many footnotes.
;  224       0351   3                 !Note that everything proceeds as if nothing was wrong.
;  225       0352   3                 !However, what eventually happens, when .END FOOTNOTE occurs,
;  226       0353   3                 !is that the footnotes get merged together.  As soon as a footnote
;  227       0354   3                 !gets expanded and output however, everything continues along ok.
;  228       0355   3                 !Note that relevant data structures have extra space allocated so
;  229       0356   3                 !special casing can be pretty much avoided in this situation.
;  230       0357   3                 ERML (RNFTMF);
;  231       0358   3
;  232       0359   3             FNCT_COLLECTING = TRUE;                  !Officially collecting footnotes now.
;  233       0360   3             FNESIZ [.FNCT_COUNT] = 0;                !Clear external size.
;  234       0361   3             FNISIZ [.FNCT_COUNT] = 0;                !Clear internal size.
;  235       0362   3             FOHTSF = .TSF;                           !Save previous status of SCANT.
;  236       0363   3             FOHMRA = .MRA;
;  237       0364   3             !Save entire status of SCA.
;  238       0365   3
;  239       0366   3             PUSH_SCA;    !Save the special SCA bits that are SAVEd.
;  240       0367   3
;  241       0368   3             INCR I FROM 0 TO SCA_SIZE - 1 DO
;  242       0369   3                 FOOSCA [.I] = .SCA [.I];
;  243       0370   3
;  244       0371   3             !  Initialize SCA to footnote environment.
;  245       0372   3             SCA_LM = 0;
;  246       0373   3             SCA_FC = TRUE;
;  247       0374   3             SCA_FC_CASE = TRUE;
;  248       0375   3             SCA_NBITS = FALSE;
;  249       0376   3             SCA_WRD_NBITS = FALSE;
;  250       0377   3             SCA_WRD_CNBITS = FALSE;
;  251       0378   3             SCA_WRD_ACNBITS = FALSE;
;  252       0379   3             SCA_WRD_FOOTW = 0;
;  253       0380   3             SCA_SECT_EMPTY = FALSE;
;  254       0381   3             SCA_FILL = TRUE;
;  255       0382   3             SCA_JUSTIFY = .GCA_AUTOJUST OR .SCA_JUSTIFY; ! Obey .[no]autojustify directive
;  256       0383   3             SCA_CROCK = .SCA_JUSTIFY;                ! Obey .[no]autojustify directive
;  257       0384   3             SCA_WRD_LST_UND = 0;
;  258       0385   3             SCA_WRD_LST_SP  = 0;
;  259       0386   3             SCA_WRD_LST_JUS = 0;
;  260       0387   3             SCA_WRD_INT_L = 0;
;  261       0388   3             SCA_WRD_EXT_L = 0;
;  262       0389   3             SCA_WRD_F_XTN = 0;
;  263       0390   3             SCA_WRD_L_XTN = 0;
;  264       0391   3             SCA_WRD_LC_PNCT = FALSE;
;  265   0392   3          SCA_WRD_LST_HYP = FALSE;
;  266   0393   3          SCA_WRD_HYP_PTR = 0;
;  267   0394   3
;  268   0395   3          !Set proper case conversion.
;  269   0396   3          SETCAS (.GCA_CASE);
;  270   0397   3
;  271   0398   3          !Set up paragraphs for footnote.  Characteristics are inherited
;  272   0399   3          !from the main body of text.
;  273   0400   3          INCR I FROM 0 TO PDT_SIZE - 1 DO
;  274   0401   3              FOOPDT [.I] = .PDT [.I];
;  275   0402   3
;  276   0403   3          FOHPDT = .PDT;                         !Remember previous paragraph settings.
;  277   0404   3          PDT = FOOPDT;                          !Point to footnote paragraph settings.
;  278   0405   3
;  279   0406   3          !Set up for .LIST and related commands.
;  280   0407   3          FOHLST = .LSTCNT;                      !Save previous .LIST status.
;  281   0408   3          FOHLSC = .LSTCHR;
;  282   0409   3          FOHLSK = .LSTSKP;
;  283   0410   3          FOHLCH = .LSTLCH;
;  284   0411   3          FOHRCH = .LSTRCH;
;  285   0412   3          FOHDD  = .LSTLDD;
;  286   0413   3          LSTCNT = F_LIST;                       !Set up footnote .LIST information.
;  287   0414   3          LSTCHR = F_LCHR;
;  288   0415   3          LSTSKP = F_LSKP;
;  289   0416   3          LSTLCH = F_LLCHR;
;  290   0417   3          LSTRCH = F_LRCHR;
;  291   0418   3          LSTLDD = F_LDD;
;  292   0419   3          LSTCNT [CL_MAX_INDEX] = 3;
;  293   0420   3          LSTCNT [CL_INDEX] = 1;
;  294   0421   3          LSTCNT [1] = 0;
;  295   0422   3          LSTCHR [0] = 0;
;  296   0423   3          LSTLCH [0] = 0;
;  297   0424   3          LSTRCH [0] = %C'.';
;  298   0425   3          LSTLDD [0] = TCONVRT_DEC_NOZ;
;  299   0426   3          TSF = FOOTSF;                          !Switch to footnote TSF.
;  300   0427   3          MRA = FOOMRA;                          !Switch to footnote MRA.
;  301   0428   3
;  302   0429   3          INCR I FROM 0 TO TSF_SIZE - 1 DO
;  303   0430   3              TSF [.I] = 0;                      !Initialize footnote TSF.
;  304   0431   3
;  305   0432   3          !It is necessary here to explicitly reset the
;  306   0433   3          !maximum size of the MRA where the footnote text will be
;  307   0434   3          !built up.  This is because a previous footnote may have
;  308   0435   3          !been expanded and written into the document.  And a
;  309   0436   3          !call on FOOOUT destroys FS_MAXSIZE, since the various
;  310   0437   3          !control cells are simply fudged in to allow the information
;  311   0438   3          !to be read without having to first move it.  Look in FOOFIL
;  312   0439   3          !(FOO_READ) to see where these cells are clobbered when
;  313   0440   3          !footnotes are read back in.
;  314   0441   3          !
;  315   0442   3          !The MRA size is reset using a global literal, defined in
;  316   0443   3          !GLBDAT as the allocated size of FOOMRA.
;  317   0444   3          !
;  318   0445   3          FS_MAXSIZE (MRA) = S_FMRA;
;  319   0446   3          !
;  320   0447   3          !Now do normal MRA initialization.
;  321   0448   3          !
;   322          0449   3                 FS_INIT (MRA);
;   323          0450   3                 SCA_WRD_PNTR  = .FS_NEXT (MRA);
;   324          0451   3                 SCA_WRD_CPEND = RINTES;              !Current word is empty.
;   325          0452   3                 HOLD_FOOT_XTN = .GCA_FOOT_XTN;       !Switch normal and footnote
;   326          0453   3                 GCA_FOOT_XTN  = .GCA_NORMAL_XTN;     !transaction numbers, to remove
;   327          0454   3                 GCA_NORMAL_XTN = .HOLD_FOOT_XTN;     !FNCT dependency in OUTLIN.
;   328          0455   2                 END;
;   329          0456   2
;   330          0457   2           [H_END_FOOTNOTE] :
;   331          0458   3                 BEGIN
;   332          0459   3
;   333          0460   3                 IF  NOT .FNCT_COLLECTING
;   334          0461   3                 THEN
;   335          0462   3                     !User said .END FOOT without first saying .FN.
;   336          0463   4                     BEGIN
;   337          0464   4                     ERMA (RNFUME, FALSE);
;   338          0465   4                     RETURN;
;   339          0466   3                     END;
;   340          0467   3
;   341          0468   3                 OUTNJ ();                               !Terminate pending text.
;   342          0469   3                 !NOTE:**** It is important that the call on OUTNJ *NOT* be removed.
;   343          0470   3                 !This is because the routine PUS, when it detects an ENDFOOTNOTE flag,
;   344          0471   3                 !has no way of telling this routine via DOCM to call OUTNJ.  If there
;   345          0472   3                 !were no ENDFOOTNOTE flag, or if the user says .END FOOTNOTE, there is
;   346          0473   3                 !no problem, since the entries in RUNTAB.REQ for .END FOOTNOTE  do
;   347          0474   3                 !indicate OUTNJ is to be called.
;   348          0475   3
;   349        U 0476   3 %IF DSRPLUS %THEN
;   350        U 0477   3                 !
;   351        U 0478   3                 ! Put out a blank line separator for numbered footnotes.
;   352        U 0479   3                 !
;   353        U 0480   3                 IF  .FNCT_NUMBERING
;   354        U 0481   3                 THEN
;   355        U 0482   3                     BEGIN
;   356        U 0483   3                     GUSKIP (1);
;   357        U 0484   3                     OUTCRG ();
;   358        U 0485   3                     !
;   359        U 0486   3                     ! Set flag to indicate the end of a footnote.
;   360        U 0487   3                     ! (This flag is normally set to 0.  At the very start of
;   361        U 0488   3                     ! a footnote, it is set to 1 to indicate the first line.
;   362        U 0489   3                     ! At the end it is set to 2 to indicate the end.  It is
;   363        U 0490   3                     ! tested and reset to 0 (in FOONUM) very quickly.)
;   364        U 0491   3                     !
;   365        U 0492   3                     FNCT_FIRST_LINE = 2;
;   366        U 0493   3                     END;
;   367          0494   3 %FI
;   368          0495   3
;   369          0496   3                 FNCT_COLLECTING = FALSE;                !Officially not collecting footnotes now.
;   370          0497   3
;   371          0498   3                 INCR I FROM 0 TO SCA_SIZE - 1 DO
;   372          0499   3                     SCA [.I] = .FOOSCA [.I];            !Restore  previous SCA.
;   373          0500   3
;   374          0501   3                 POP_SCA;     !Restore the special SCA bits
;   375          0502   3
;   376          0503   3                 !If the footnote tables have not overflowed, update the count of footnotes
;   377          0504   3                 !associated with this word.
;   378          0505   3                 IF  (.FNCT_COUNT LSS FNCT_MAX) AND
;  379         0506  3                       .PHAN_PAGING                            !Merge all footnotes if .NO PAGING
;  380         0507  3                 THEN
;  381         0508  3                     SCA_WRD_FOOTW = .SCA_WRD_FOOTW + 1;
;  382         0509  3
;  383         0510  3                 MRA = .FOHMRA;                              !Restore previous MRA.
;  384         0511  3                 TSF = .FOHTSF;                              !Restore previous TSF.
;  385         0512  3                 PDT = .FOHPDT;                              !Restore previous paragraph settings.
;  386         0513  3                 LSTCNT = .FOHLST;                           !Restore previous .LIST information.
;  387         0514  3                 LSTCHR = .FOHLSC;
;  388         0515  3                 LSTSKP = .FOHLSK;
;  389         0516  3                 LSTLCH = .FOHLCH;
;  390         0517  3                 LSTRCH = .FOHRCH;
;  391         0518  3                 LSTLDD = .FOHDD;
;  392         0519  3
;  393         0520  3                 !If the user used the outmoded .FN n command (i.e., specifed what he believed
;  394         0521  3                 !the number of footnote lines to be) verify that he indeed gave a correct
;  395         0522  3                 !value for "n".
;  396         0523  3                 IF   (.FNCT_N NEQ .FNESIZ [.FNCT_COUNT]) AND
;  397         0524  4                      (.FNCT_N NEQ 0)
;  398         0525  3                 THEN
;  399         0526  3                     !User specified a count and it doesn't agree with how big the footnote really is.
;  400         0527  3                     !Tell the user he made a mistake, and also how big the footnote really is.
;  401         0528  3                     ERMN (RNFGFC, .FNESIZ [.FNCT_COUNT]);
;  402         0529  3
;  403         0530  3                 !Update some footnote statistics.
;  404         0531  3                 !Note that three situations occur here, one of which is an error condition.
;  405         0532  3                 IF   .FNCT_COUNT GEQ FNCT_MAX
;  406         0533  3                 THEN
;  407         0534  3                     !The error case.  Statistics have been piling up in an extra
;  408         0535  3                     !location in the tables.  Merge that info with other information
;  409         0536  3                     !so that the footnotes get merged.
;  410         0537  4                     BEGIN
;  411         0538  4                     FNISIZ [FNCT_MAX - 1] = .FNISIZ [.FNCT_COUNT - 1] + .FNISIZ [.FNCT_COUNT];
;  412         0539  4                     FNESIZ [FNCT_MAX - 1] = .FNESIZ [.FNCT_COUNT - 1] + .FNESIZ [.FNCT_COUNT]
;  413         0540  4                     END
;  414         0541  3                 ELSE
;  415         0542  3
;  416         0543  3                     !The normal situation.  The tables won't overflow, and so all we have to
;  417         0544  3                     !do is update footnote count information.
;  418         0545  3                     IF  .PHAN_PAGING
;  419         0546  3                     THEN
;  420         0547  3                         !The document is being paged, so don't merge footnotes.
;  421         0548  4                         BEGIN
;  422         0549  4                         FNCT_COUNT   = .FNCT_COUNT   + 1;
;  423         0550  4                         FNCT_WAITING = .FNCT_WAITING + 1;
;  424         0551  4                         END
;  425         0552  3                     ELSE
;  426         0553  3
;  427         0554  3                         !The document is not being paged.
;  428         0555  3                         !Merge all footnotes into one biggie.
;  429         0556  3                         IF   .FNCT_COUNT EQL 0
;  430         0557  3                         THEN
;  431         0558  3                             !This is the first footnote in the .NOPAGING environment
;  432         0559  4                             BEGIN
;  433         0560  4                             FNCT_COUNT = 1;
;  434         0561  4                             FNCT_READY = 1;
;  435         0562  4                             END
;  436          0563  3                     ELSE
;  437          0564  3                         !Merge new footnote with first footnote
;  438          0565  4                         BEGIN
;  439          0566  4                         !Note that FNCT_COUNT will not necessarily be 1.  That's because
;  440          0567  4                         !the user may have entered no paging mode after having accumulated
;  441          0568  4                         !some footnotes in paging mode.  In any case, this new footnote gets
;  442          0569  4                         !arbitrarily counted in with the size of the very first footnote.
;  443          0570  4                         FNESIZ [0] = .FNESIZ [0] + .FNESIZ [.FNCT_COUNT];
;  444          0571  4                         FNISIZ [0] = .FNISIZ [0] + .FNISIZ [.FNCT_COUNT];
;  445          0572  3                         END;
;  446          0573  3
;  447          0574  3             HOLD_FOOT_XTN  = .GCA_FOOT_XTN;        !Switch normal and footnote
;  448          0575  3             GCA_FOOT_XTN   = .GCA_NORMAL_XTN;      !transaction numbers, to remove
;  449          0576  3             GCA_NORMAL_XTN = .HOLD_FOOT_XTN;       !FNCT dependency in OUTLIN.
;  450          0577  2             END;
;  451          0578  2
;  452          0579  2         TES;
;  453          0580  2
;  454          0581  1     END;                                            !End of FN


                                                        .TITLE  FNONLY Process .FN and .END FOOTNOTE directives
                                                        .IDENT  \V04-000\

                                                        .PSECT  $OWN$,NOEXE,2

                                        00000 PP_SCA:   .BLKB   48

                                                        .EXTRN  RINTES, FNCT, FNESIZ
                                                        .EXTRN  FNISIZ, GCA, IRA
                                                        .EXTRN  KHAR, LSTCHR, LSTLCH
                                                        .EXTRN  LSTRCH, LSTLDD, LSTCNT
                                                        .EXTRN  LSTSKP, MRA, NUMPRM
                                                        .EXTRN  PDT, PHAN, SCA, TSF
                                                        .EXTRN  FOOMRA, FOOPDT, FOOSCA
                                                        .EXTRN  F_LIST, F_LCHR, F_LSKP
                                                        .EXTRN  F_LLCHR, F_LRCHR
                                                        .EXTRN  F_LDD, FOOTSF, FOHLCH
                                                        .EXTRN  FOHRCH, FOHDD, FOHLSC
                                                        .EXTRN  FOHLSK, FOHLST, FOHPDT
                                                        .EXTRN  FOHMRA, FOHTSF, RNFGFC
                                                        .EXTRN  RNFTMF, RNFUME, S_FMRA
                                                        .EXTRN  ERM, ERMA, ERML
                                                        .EXTRN  ERMN, FOOFIL, OUTNJ
                                                        .EXTRN  SETCAS

                                                        .PSECT  $CODE$,NOWRT,2

                                  0FFC 00000            .ENTRY  FN, Save R2,R3,R4,R5,R6,R7,R8,R9,R10,R11       ; 0279
                5B 00000000G  EF    9E 00002            MOVAB   LSTCNT, R11                                    ;
                5A 00000000G  EF    9E 00009            MOVAB   PDT, R10                                       ;
                59 00000000G  EF    9E 00010            MOVAB   MRA, R9                                        ;
                58 00000000G  EF    9E 00017            MOVAB   TSF, R8                                        ;
                57 00000000G  EF    9E 0001E            MOVAB   FNISIZ, R7                                     ;
                56 00000000G  EF    9E 00025            MOVAB   GCA+172, R6                                    ;
                55 00000000G  EF    9E 0002C            MOVAB   FNESIZ, R5                                     ;
                54 00000000G  EF    9E 00033            MOVAB   FNCT, R4                                       ;
```

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                 53 00000000'    EF  9E 0003A         MOVAB   PP_SCA, R3                          ;
                 52 00000000G    EF  9E 00041         MOVAB   SCA+100, R2                         ;
                 50          04  AC  D0 00048         MOVL    HANDLER_CODE, R0                    ; 0306
     0000005A    8F              50  D1 0004C         CMPL    R0, #90                             ; 0309
                                 03  13 00053         BEQL    1$                                  ;
                               01D9  31 00055         BRW     7$                                  ;
                             84  A6  D4 00058 1$:     CLRL    GCA+48                              ; 0339
           08    A4 00000000G    EF  D0 0005B         MOVL    NUMPRM+4, FNCT+8                    ; 0340
                                 02  DD 00063         PUSHL   #2                                  ; 0342
     00000000G   EF              01  FB 00065         CALLS   #1, FOOFIL                          ;
                 01              50  D1 0006C         CMPL    R0, #1                              ;
                                 01  13 0006F         BEQL    2$                                  ;
                                     04 00071         RET                                         ;
           14                    64  D1 00072 2$:     CMPL    FNCT, #20                           ; 0348
                                 0D  19 00075         BLSS    3$                                  ;
                    00000000G    8F  DD 00077         PUSHL   #RNFTMF                             ; 0357
     00000000G   EF              01  FB 0007D         CALLS   #1, ERML                            ;
           14    A4              01  D0 00084 3$:     MOVL    #1, FNCT+20                         ; 0359
                 50              64  D0 00088         MOVL    FNCT, R0                            ; 0360
                               6540  D4 0008B         CLRL    FNESIZ[R0]                          ;
                               6740  D4 0008E         CLRL    FNISIZ[R0]                          ; 0361
     00000000G   EF              68  D0 00091         MOVL    TSF, FOHTSF                         ; 0362
     00000000G   EF              69  D0 00098         MOVL    MRA, FOHMRA                         ; 0363
                 63          00  B2  D0 0009F         MOVL    @SCA+100, PP_SCA                    ;
           04    A3          04  B2  D0 000A3         MOVL    @SCA+104, PP_SCA+4                  ;
           08    A3          08  B2  D0 000A8         MOVL    @SCA+108, PP_SCA+8                  ;
           0C    A3          0C  B2  D0 000AD         MOVL    @SCA+112, PP_SCA+12                 ;
           10    A3          10  B2  D0 000B2         MOVL    @SCA+116, PP_SCA+16                 ;
           14    A3          14  B2  D0 000B7         MOVL    @SCA+120, PP_SCA+20                 ;
           18    A3          18  B2  D0 000BC         MOVL    @SCA+124, PP_SCA+24                 ;
           1C    A3          1C  B2  D0 000C1         MOVL    @SCA+128, PP_SCA+28                 ;
           20    A3          20  B2  D0 000C6         MOVL    @SCA+132, PP_SCA+32                 ;
           24    A3          24  B2  D0 000CB         MOVL    @SCA+136, PP_SCA+36                 ;
           28    A3          28  B2  D0 000D0         MOVL    @SCA+140, PP_SCA+40                 ;
           2C    A3          2C  B2  D0 000D5         MOVL    @SCA+144, PP_SCA+44                 ;
                                 50  D4 000DA         CLRL    I                                   ; 0368
     00000000GEF40           9C A240  D0 000DC 4$:    MOVL    SCA[I], FOOSCA[I]                   ; 0369
EE               50 0000005F     8F  F3 000E6         AOBLEQ  #95, I, 4$                          ;
                             10  B2  D4 000EE         CLRL    @SCA+116                            ; 0372
           6C    A2              01  D0 000F1         MOVL    #1, SCA+208                         ; 0374
           30    A2              01  7D 000F5         MOVQ    #1, SCA+148                         ; 0373
                             5C  A2  7C 000F9         CLRQ    SCA+192                             ; 0376
                             64  A2  D4 000FC         CLRL    SCA+200                             ; 0378
                             50  A2  D4 000FF         CLRL    SCA+180                             ; 0380
           04    B2              01  D0 00102         MOVL    #1, @SCA+104                        ; 0381
           00    B2        FF64  D6  C8 00106         BISL2   @GCA+16, @SCA+100                   ; 0382
           0C    B2          00  B2  D0 0010C         MOVL    @SCA+100, @SCA+112                  ; 0383
                           00E8  C2  D4 00111         CLRL    SCA+332                             ; 0385
                           00EC  C2  7C 00115         CLRQ    SCA+336                             ; 0386
                           0098  C2  7C 00119         CLRQ    SCA+252                             ; 0387
                           00C0  C2  7C 0011D         CLRQ    SCA+292                             ; 0379
                           00C8  C2  D4 00121         CLRL    SCA+300                             ; 0390
                           00DC  C2  D4 00125         CLRL    SCA+320                             ; 0392
                           00E0  C2  7C 00129         CLRQ    SCA+324                             ; 0393
                             D4  B6  DD 0012D         PUSHL   @GCA+128                            ; 0396
     00000000G   EF              01  FB 00130         CALLS   #1, SETCAS                          ;
                                 50  D4 00137         CLRL    I                                   ; 0401
```

```
            00000000GEF40         00 BA40  D0 00139 5$:      MOVL    @PDT[I], FOOPDT[I]              ;
      F2               50              02  F3 00143          AOBLEQ  #2, I, 5$                       ;
            00000000G  EF              6A  D0 00147          MOVL    PDT, FOHPDT                     ; 0403
                      6A 00000000G     EF  9E 0014E          MOVAB   FOOPDT, PDT                     ; 0404
            00000000G  EF              6B  D0 00155          MOVL    LSTCNT, FOHLST                  ; 0407
            00000000G  EF 00000000G    EF  D0 0015C          MOVL    LSTCHR, FOHLSC                  ; 0408
            00000000G  EF 00000000G    EF  D0 00167          MOVL    LSTSKP, FOHLSK                  ; 0409
            00000000G  EF 00000000G    EF  D0 00172          MOVL    LSTLCH, FOHLCH                  ; 0410
            00000000G  EF 00000000G    EF  D0 0017D          MOVL    LSTRCH, FOHRCH                  ; 0411
            00000000G  EF 00000000G    EF  D0 00188          MOVL    LSTLDD, FOHDD                   ; 0412
                      6B 00000000G     EF  9E 00193          MOVAB   F_LIST, LSTCNT                  ; 0413
            00000000G  EF 00000000G    EF  9E 0019A          MOVAB   F_LCHR, LSTCHR                  ; 0414
            00000000G  EF 00000000G    EF  9E 001A5          MOVAB   F_LSKP, LSTSKP                  ; 0415
            00000000G  EF 00000000G    EF  9E 001B0          MOVAB   F_LLCHR, LSTLCH                 ; 0416
            00000000G  EF 00000000G    EF  9E 001BB          MOVAB   F_LRCHR, LSTRCH                 ; 0417
            00000000G  EF 00000000G    EF  9E 001C6          MOVAB   F_LDD, LSTLDD                   ; 0418
                       50              6B  D0 001D1          MOVL    LSTCNT, R0                      ; 0419
                       60              03  D0 001D4          MOVL    #3, (R0)                        ;
                    04 A0              01  7D 001D7          MOVQ    #1, 4(R0)                       ; 0420
                         00000000G     FF  D4 001DB          CLRL    @LSTCHR                         ; 0422
                         00000000G     FF  D4 001E1          CLRL    @LSTLCH                         ; 0423
            00000000G  FF              2E  D0 001E7          MOVL    #46, @LSTRCH                    ; 0424
                         00000000G     FF  D4 001EE          CLRL    @LSTLDD                         ; 0425
                      68 00000000G     EF  9E 001F4          MOVAB   FOOTSF, TSF                     ; 0426
                      69 00000000G     EF  9E 001FB          MOVAB   FOOMRA, MRA                     ; 0427
                                       50  D4 00202          CLRL    I                               ; 0430
                                  00 B840  D4 00204 6$:      CLRL    @TSF[I]                         ;
      F8               50              27  F3 00208          AOBLEQ  #39, I, 6$                      ;
                       50              69  D0 0020C          MOVL    MRA, R0                         ; 0445
                    08 A0 00000000G    8F  D0 0020F          MOVL    #S_FMRA, 8(R0)                  ;
                                0C     A0  D4 00217          CLRL    12(R0)                          ; 0449
                       60       10     A0  9E 0021A          MOVAB   16(R0), (R0)                    ;
                    04 A0              60  D0 0021E          MOVL    (R0), 4(R0)                     ;
                  0094 C2       04     A0  D0 00222          MOVL    4(R0), SCA+248                  ; 0450
                  00B4 C2       00G    8F  9A 00228          MOVZBL  #RINTES, SCA+280                ; 0451
                                     0132  31 0022E          BRW     16$                             ; 0452
                       39              50  D1 00231 7$:      CMPL    R0, #57                         ; 0457
                                       01  13 00234          BEQL    8$                              ;
                                           04 00236          RET                                     ;
                       10       14     A4  E8 00237 8$:      BLBS    FNCT+20, 9$                     ; 0460
                                       7E  D4 0023B          CLRL    -(SP)                           ; 0464
                         00000000G     8F  DD 0023D          PUSHL   #RNFUME                         ;
            00000000G  EF              02  FB 00243          CALLS   #2, ERMA                        ;
                                           04 0024A          RET                                     ; 0463
            00000000G  EF              00  FB 0024B 9$:      CALLS   #0, OUTNJ                       ; 0468
                                14     A4  D4 00252          CLRL    FNCT+20                         ; 0496
                                       50  D4 00255          CLRL    I                               ; 0498
               9C A240 00000000GEF40       D0 00257 10$:     MOVL    FOOSCA[I], SCA[I]               ; 0499
      EE               50 0000005F     8F  F3 00261          AOBLEQ  #95, I, 10$                     ;
                    00 B2              63  D0 00269          MOVL    PP_SCA, @SCA+100                ;
                    04 B2       04     A3  D0 0026D          MOVL    PP_SCA+4, @SCA+104              ;
                    08 B2       08     A3  D0 00272          MOVL    PP_SCA+8, @SCA+108              ;
                    0C B2       0C     A3  D0 00277          MOVL    PP_SCA+12, @SCA+112             ;
                    10 B2       10     A3  D0 0027C          MOVL    PP_SCA+16, @SCA+116             ;
                    14 B2       14     A3  D0 00281          MOVL    PP_SCA+20, @SCA+120             ;
                    18 B2       18     A3  D0 00286          MOVL    PP_SCA+24, @SCA+124             ;
                    1C B2       1C     A3  D0 0028B          MOVL    PP_SCA+28, @SCA+128             ;
                  20   B2          20   A3  D0 00290          MOVL    PP_SCA+32, @SCA+132                          ;
                  24   B2          24   A3  D0 00295          MOVL    PP_SCA+36, @SCA+136                          ;
                  28   B2          28   A3  D0 0029A          MOVL    PP_SCA+40, @SCA+140                          ;
                  2C   B2          2C   A3  D0 0029F          MOVL    PP_SCA+44, @SCA+144                          ;
                       50               64  D0 002A4          MOVL    FNCT, R0                                     ; 0505
                       14               50  D1 002A7          CMPL    R0, #20                                      ;
                                        0B  18 002AA          BGEQ    11$                                          ;
                  04 00000000G          FF  E9 002AC          BLBC    @PHAN+40, 11$                                ; 0506
                           00C0         C2  D6 002B3          INCL    SCA+292                                      ; 0508
                  69 00000000G          EF  D0 002B7 11$:     MOVL    FOHMRA, MRA                                  ; 0510
                  68 00000000G          EF  D0 002BE          MOVL    FOHTSF, TSF                                  ; 0511
                  6A 00000000G          EF  D0 002C5          MOVL    FOHPDT, PDT                                  ; 0512
                  6B 00000000G          EF  D0 002CC          MOVL    FOHLST, LSTCNT                               ; 0513
         00000000G EF 00000000G         EF  D0 002D3          MOVL    FOHLSC, LSTCHR                               ; 0514
         00000000G EF 00000000G         EF  D0 002DE          MOVL    FOHLSK, LSTSKP                               ; 0515
         00000000G EF 00000000G         EF  D0 002E9          MOVL    FOHLCH, LSTLCH                               ; 0516
         00000000G EF 00000000G         EF  D0 002F4          MOVL    FOHRCH, LSTRCH                               ; 0517
         00000000G EF 00000000G         EF  D0 002FF          MOVL    FOHDD, LSTLDD                                ; 0518
              6540          08          A4  D1 0030A          CMPL    FNCT+8, FNESIZ[R0]                           ; 0523
                                        15  13 0030F          BEQL    12$                                          ;
                            08          A4  D5 00311          TSTL    FNCT+8                                       ; 0524
                                        10  13 00314          BEQL    12$                                          ;
                                      6540  DD 00316          PUSHL   FNESIZ[R0]                                   ; 0528
                          00000000G     8F  DD 00319          PUSHL   #RNFGFC                                      ;
         00000000G     EF               02  FB 0031F          CALLS   #2, ERMN                                     ;
                       50               64  D0 00326 12$:     MOVL    FNCT, R0                                     ; 0532
                       14               50  D1 00329          CMPL    R0, #20                                      ;
                                        12  19 0032C          BLSS    13$                                          ;
      4C   A7           FC A740       6740  C1 0032E          ADDL3   FNISIZ[R0], FNISIZ-4[R0], FNISIZ+76          ; 0538
      4C   A5           FC A540       6540  C1 00336          ADDL3   FNESIZ[R0], FNESIZ-4[R0], FNESIZ+76          ; 0539
                                        23  11 0033E          BRB     16$                                          ;
                  07 00000000G          FF  E9 00340 13$:     BLBC    @PHAN+40, 14$                                ; 0545
                                        64  D6 00347          INCL    FNCT                                         ; 0549
                            10          A4  D6 00349          INCL    FNCT+16                                      ; 0550
                                        15  11 0034C          BRB     16$                                          ; 0545
                                        50  D5 0034E 14$:     TSTL    R0                                           ; 0556
                                        09  12 00350          BNEQ    15$                                          ;
                       64               01  D0 00352          MOVL    #1, FNCT                                     ; 0560
                  04   A4               01  D0 00355          MOVL    #1, FNCT+4                                   ; 0561
                                        08  11 00359          BRB     16$                                          ; 0556
                       65             6540  C0 0035B 15$:     ADDL2   FNESIZ[R0], FNESIZ                           ; 0570
                       67             6740  C0 0035F          ADDL2   FNISIZ[R0], FNISIZ                           ; 0571
                       50               66  D0 00363 16$:     MOVL    GCA+172, HOLD_FOOT_XTN                       ; 0574
                       66          FC   A6  D0 00366          MOVL    GCA+168, GCA+172                             ; 0575
                  FC   A6               50  D0 0036A          MOVL    HOLD_FOOT_XTN, GCA+168                       ; 0576
                                            04 0036E          RET                                                  ; 0581

; Routine Size:  879 bytes,    Routine Base:  $CODE$ + 0000


;  455          0582  1
;  456          0583  1 END                                   !End of module
;  457          0584  0 ELUDOM
;                                   PSECT SUMMARY
;
;       Name                                Bytes                           Attributes
;
;  $OWN$                                       48  NOVEC,  WRT,  RD ,NOEXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)
;  $CODE$                                     879  NOVEC,NOWRT,  RD ,  EXE,NOSHR,  LCL,  REL,  CON,NOPIC,ALIGN(2)




;                             Library Statistics
;
;                                                -------- Symbols --------        Pages      Processing
;       File                                     Total    Loaded   Percent        Mapped     Time
;
;  _$255$DUA28:[SYSLIB]XPORT.L32;1                 590         0         0          252       00:00.1
;  _$255$DUA28:[RUNOFF.SRC]DSRLIB.L32;1           1248        96         7           86       00:00.3




;                                     COMMAND QUALIFIERS

;       BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS$:FNONLY/OBJ=OBJ$:FNONLY MSRC$:FNONLY/UPDATE=(ENH$:FNONLY)

; Size:          879 code + 48 data bytes
; Run Time:         00:24.1
; Elapsed Time:     00:52.1
; Lines/CPU Min:     1455
; Lexemes/CPU-Min: 15198
; Memory Used:  189 pages
; Compilation Complete
```

0341 AH-BT13A-SE
VAX/VMS V4.0

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